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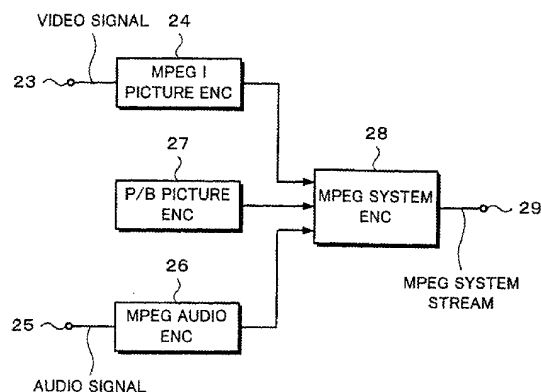
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(54) **Electronic video camera comprising an MPEG encoder**

(57) A camera apparatus encodes a video signal received from a photographing means in MPEG video format or equivalent format and encodes an audio signal received from an audio inputting means in MPEG audio format or equivalent format. The camera comprises an I picture generating means (24) for encoding the video signal received from the photographing means corresponding to an intra-frame encoding process so as to generate an I picture in the MPEG video format or equivalent format. A picture generator (27) generates a P picture and/or a B picture in the MPEG video format or equivalent format in such a manner that moving vectors of all macro blocks thereof are zero and the chronologically preceding picture is copied as an encoded picture. An audio encoder (26) encodes the audio signal received from the audio inputting means in the MPEG audio format or equivalent format so as to generate MPEG audio data. A controlling means (28) multiplexes the I picture, the P picture or the B picture, and the MPEG audio data so as to generate the multiplexed data.

Fig. 3



EP 0 982 950 A3



European Patent
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Application Number
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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 28 July 2004	Examiner Sampels, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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Application Number
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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 28 July 2004	Examiner Sampels, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> <p>T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document</p>			

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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 6486

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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
<p>The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
Berlin		28 July 2004	Sampels, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.92 (P04C01)



European Patent
Office

Application Number
EP 99 30 6486

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
1-11, 13, 15-23, 25-35, 37, 39-47
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 99 30 6486

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-11,13,15,18-23,25-35,37,39,42-47

Inserting P or B pictures in MPEG video format with fixed data as P or B pictures representing that the motion vectors of all macroblocks of one entire frame are zero.

2. claims: 12,14,36,38

Video encoding with optional JPEG output in different memory location.

3. claims: 16,17,40,41

Selection of variable length code tables according to coding mode.

4. claims: 24,48

XGA or VGA format when still picture photographing mode selected and thinning out by 3 when moving picture photographing mode selected.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 6486

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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28-07-2004

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82